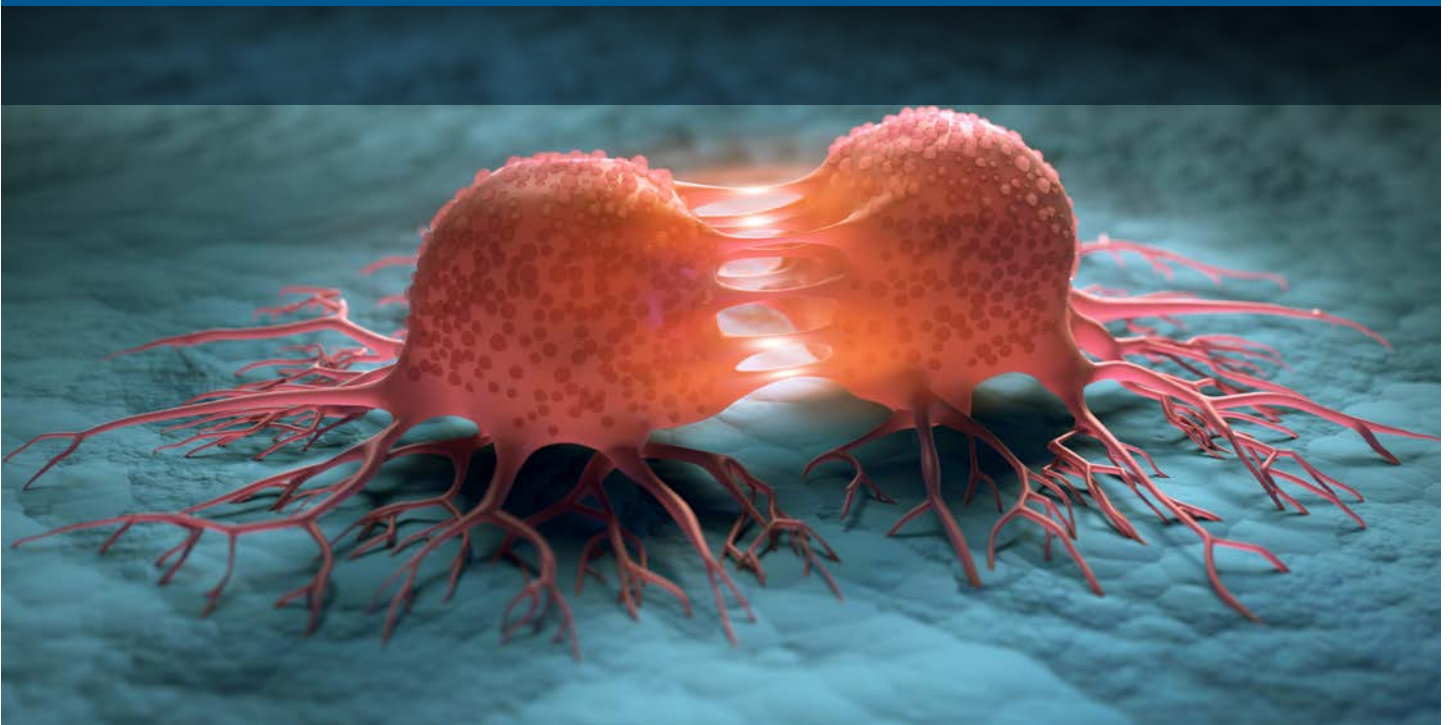


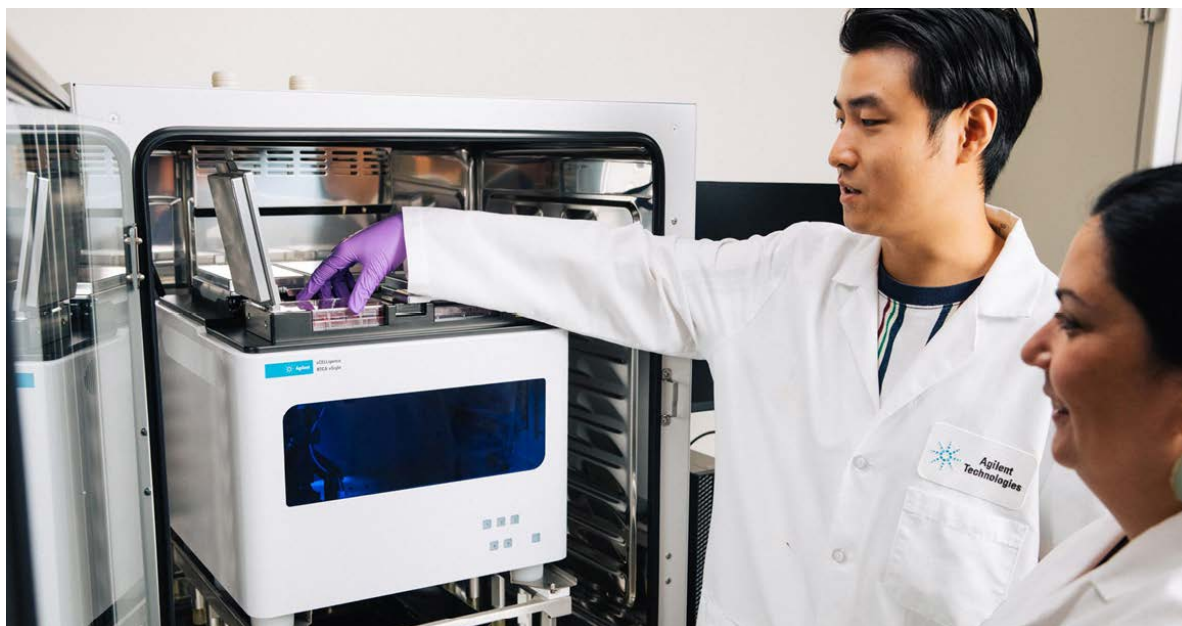
Measure Cell Movement, Health, and Function with the Agilent xCELLigence RTCA eSight

Multiparametric real-time automated readouts using
simultaneous cellular impedance and live-cell imaging



Get Two Instruments and Twice the Results from One Powerful System

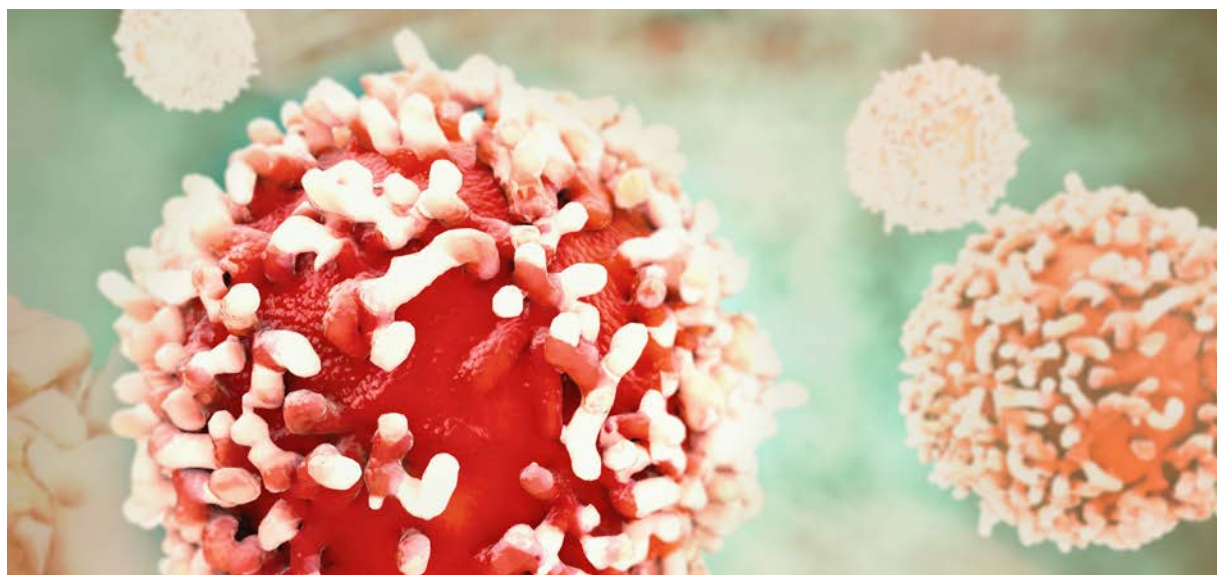
The Agilent xCELLigence RTCA eSight is currently the only platform on the market capable of collecting live-cell imaging and real-time impedance data at the same time, all in the same well.



Discover the true potential of your immuno-oncology and drug discovery research by understanding crucial biological insights and changes in your cells in real time. The xCELLigence RTCA eSight measures and monitors the health and viability of a cell population to fully understand the effects of a new drug, cell, or gene therapy.

Now take advantage of the latest v1.5 xCELLigence RTCA eSight software, which offers AI automated label-free cell segmentation for more efficient image analysis. Image standard microtiter plates with 5 × 96-well throughput, along with 3D organoid capabilities. RTCA eSight software also securely manages, verifies, and maintains electronic records in full compliance with US 21 CFR Part 11 and EU Annex 11 requirements, as part of the compliance license.

What are the advantages of live-cell analysis?



- **Maintain the integrity of your experiments and the cellular environment by analyzing viable, living cells.**
Traditional assays quickly shift from live-cell to endpoint, destroying the cells. With the xCELLigence RTCA eSight, cells are measured in a highly physiologically relevant environment. Also, each of the five cradles is independent of one another, ensuring that you can add or change plates without disturbing cells in the other cradles.
- **Get information-rich analysis through multiple readouts and the power of dual technology.**
Why rely on imaging alone, when you can quickly start your experiments with the ease of impedance? Impedance requires minimal hands-on time and software training. Together, impedance and imaging provide deeper insights into understanding biological phenomena and honing in on the drug mechanism of action. Generate impedance graphs, images, and movies with ease.
- **Start your kinetic analysis in record time to get answers quickly.**
Live-cell kinetic analysis has never been easier than with the RTCA eSight. Don't rely on just a single time or endpoint. Continuous analysis ensures you capture biological events, responses, or interactions as they happen. 96- and 384-well formats enable quick optimization and high throughput capability for rapid QC, seeding densities, or concentrations.
- **Easily achieve live-cell analysis with a simple workflow using the xCELLigence RTCA eSight.**
Analyze cells in the incubator for days or weeks without disturbing your cells. Each cradle provides the best user experience allowing for simple workflow, scheduling, and accessibility. Drive and improve experiment outcomes whether you are enhancing cell culture conditions or diving into complex cell-cell interactions.
- **Ensure regulatory compliance and protect data integrity with xCELLigence RTCA eSight software.**
The latest compliance module and license helps organizations meet all requirements of 21 CFR Part 11 and relevant EU Annex 11 sections, ensuring the authenticity and security of your electronic data acquisition and analysis.

Advance Your Cell Health Research with One Simple, Efficient Workflow

Maximum Efficiency with Multiplexing

- **Multiplex readouts:** Simple mix-and-read reagents or label-free (impedance)
- **Built-in validation:** Use the power of both impedance and imaging to verify your results
- **Reproducible:** Generate data while minimizing costs and time when doing repeat experiments
- **High throughput:** Run 5 x 96-well or 2 x 384-well plates simultaneously
- **Flexible:** Automatically quantify treatments, generate dose-response curves, or determine mechanism of cell death

Gain More Insights

- **Expanded biological insights:** Understand biological phenomena, and be more confident in your experiments with two different readouts
- **More physiologically relevant:** Capture precious cellular and biological events as they happen in 2D or 3D based culture, and avoid missing crucial time points seen with traditional endpoint assays
- **Insightful kinetic readouts:** Measure short- or long-term effects, from seconds to days
- **Sensitive:** Capture key cellular events with xCELLigence impedance biosensor technology

Simple Workflow

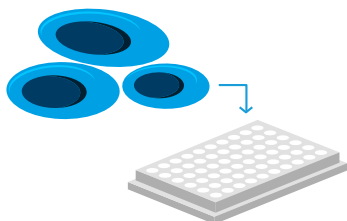
- **Hands-off:** Run assays without removing cells from the incubator
- **Automated:** Acquires and analyzes impedance data and images around the clock
- **Intuitive:** Instrument operation and data analysis are easy to perform with no special training required; cell index graphs can easily be generated in just a few clicks
- **Nonperturbing:** Label-free or label-based reagents enable powerful analysis on live cells over hours or days, without perturbing your cells

Expanded Capabilities

- **Advanced software:** Automatically quantify cell formation, growth, and shrinkage or death in real time, with a wide variety of application modules spanning simple monoculture to coculture to 3D single and multispheroids
- **Whole-well imaging:** Visualize the entire well when doing QC and monitoring cell growth; accommodates a wide range of labware from 6- to 384-well plates, dishes, and flasks
- **More options:** Live-cell imaging in brightfield, and red, green, and blue fluorescent channels spanning 5, 10, and 20x objectives
- **Increased throughput:** Run regular microtiter imaging plates on all 5 cradles for maximum throughput, whether doing 2D or 3D based imaging experiments
- **Automated cell segmentation:** Take advantage of label-free AI cell segmentation, which automatically captures cell count and proliferation without the manual steps and saves you hours in your image analysis

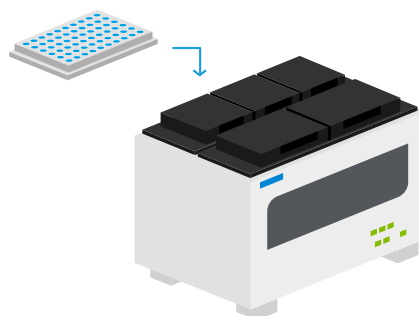
1.

Seed adherent cells or suspension cells into RTCA E-Plate View 96 or Regular 96-well imaging plate.



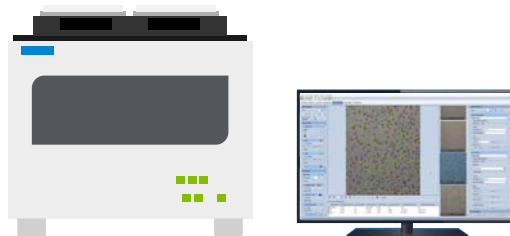
2.

Load E-Plates into xCELLigence RTCA eSight



3.

Add treatments according to experimental requirements

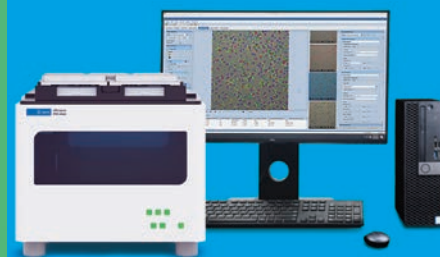


4.

Simultaneous monitoring:
Real-time impedance monitoring
and live-cell imaging



Drive New Insights and Key Discoveries with New Live-Cell Analysis Applications for RTCA eSight

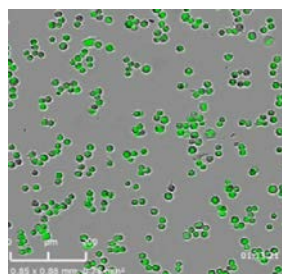


Cell health and viability

Proliferation

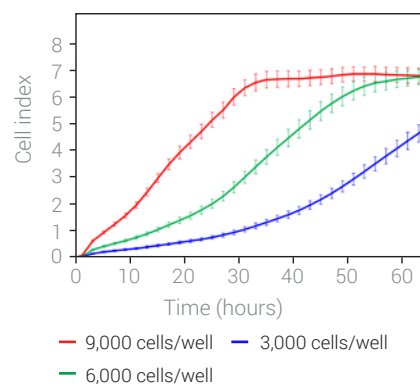
Label nuclei for cell counts and measure growth or growth inhibition. Count living cells in real time with Agilent eLenti or eLive dyes or via label-free impedance.

Imaging



[Watch video](#)

Impedance-based analysis



AI-based cell segmentation

Easily count cells spanning broad morphologies, and utilize a pre-trained AI model to automate your workflow with the click of a button.

Imaging

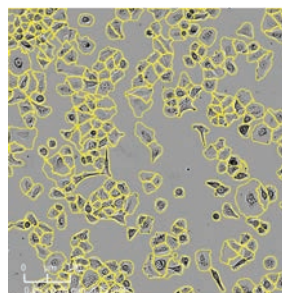
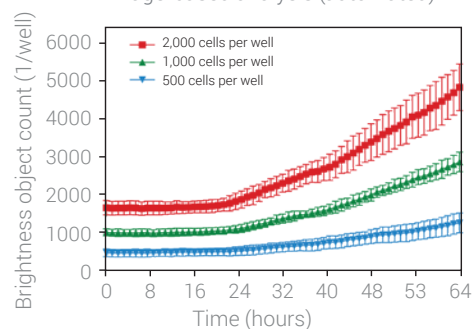


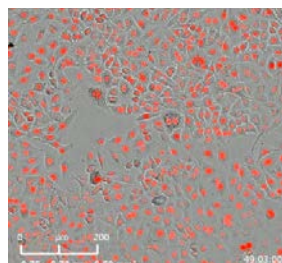
Image-based analysis (automated)



Cytotoxicity

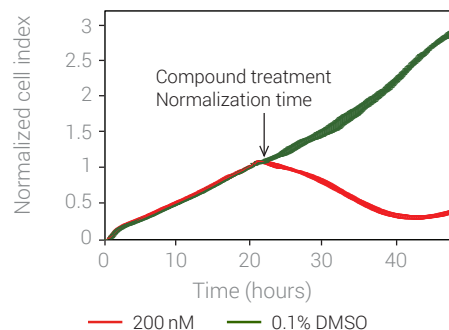
Detect cell death using Agilent eTox reagents. Measure cell viability with simple mix-and-read protocols, and with multiplexed imaging plus label-free impedance.

Imaging



[Watch video](#)

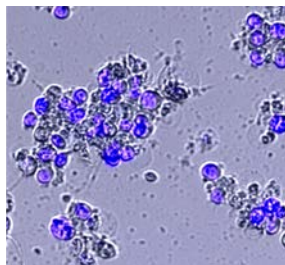
Impedance-based analysis



Apoptosis

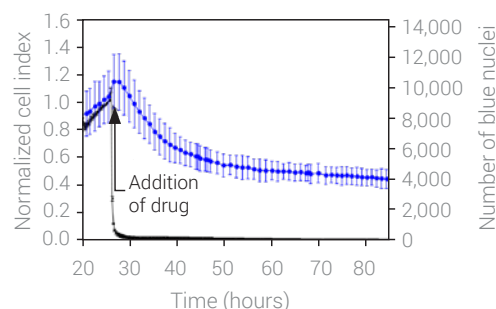
Measure real-time cell health directly and capture early and late apoptotic events such as modulation of cell adhesion, cell membrane integrity, and cell detachment. Use Agilent eAnnexin and eCaspase reagents to detect apoptosis, or detect through label-free impedance.

Imaging



[Watch video](#)

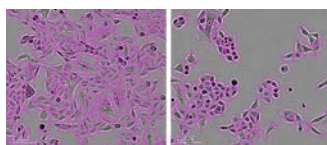
Image and impedance-based analysis



Cell-by-cell analysis

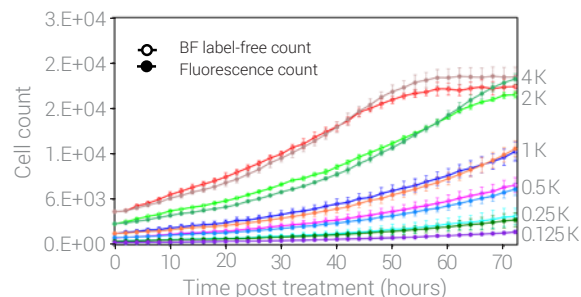
Continuously monitor and quantify single-cell segmentation through label-free analysis. Gather cell count and nuclear fluorescent recognition count as a function over time. Measure cell subpopulations over time and gain insights into cellular heterogeneity.

Imaging



[Watch video](#)

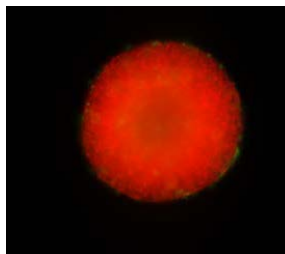
Image-based analysis



3D tumor spheroids

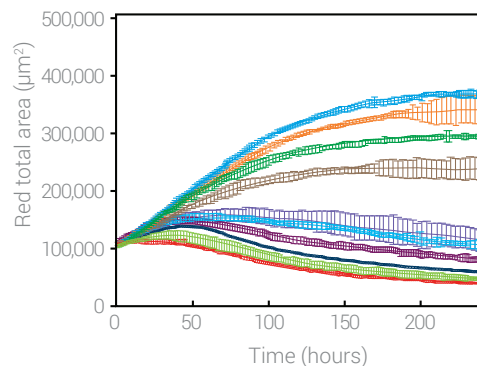
Continuously monitor and measure 3D tumor spheroid formation, growth, or shrinkage. Gain more insights into various drug or immuno-oncology studies.

Imaging



[Watch video](#)

Image-based analysis



3D multitumor spheroids

Automatically track and quantify multitumor spheroid formation, health, migration, and invasion in real time. Use extracellular matrix (ECM) to mimic the tumor microenvironment and recreate physiologic heterogeneity.

Imaging

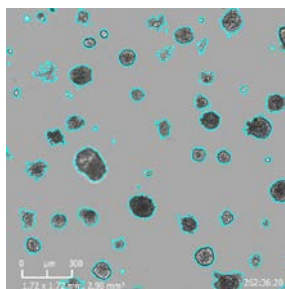
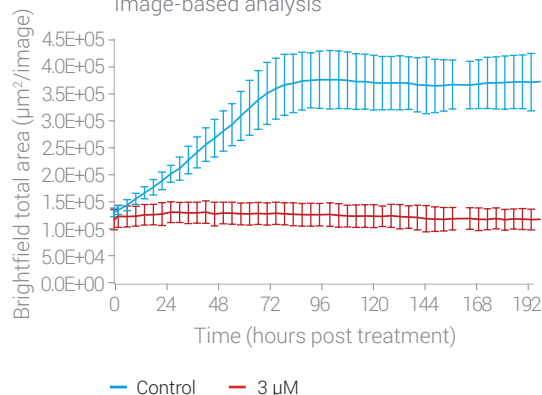


Image-based analysis



3D organoids:

Automatically track and monitor organoid size, count, and morphology in real time. Generate, maintain, and measure organoids, and gain deeper insights into maturation and treatment response all within the same plate.

Imaging

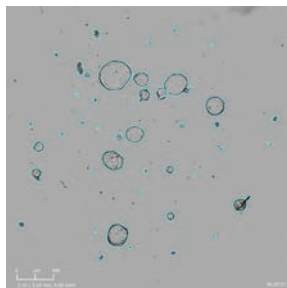
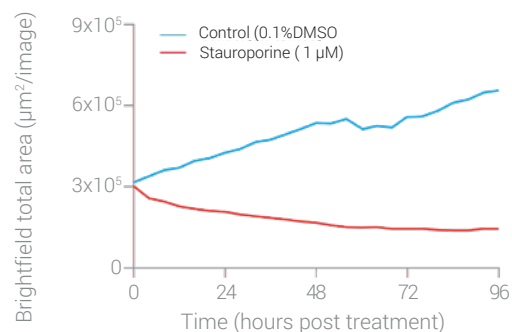


Image-based analysis

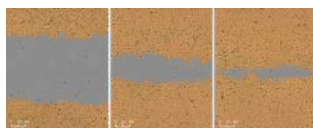


Migration and invasion

Wound healing migration and invasion

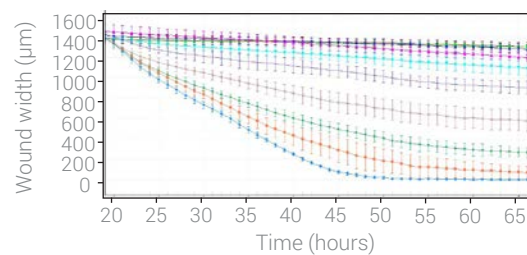
Assess the effects of treatments on cell migration profiles, and investigate the wound closure rate. Explore metastatic potential and how various conditions affect or delay healing. Metrics such as wound width, confluence, cell index, wound count, and density are easily measurable with automated software.

Imaging



[Watch video](#)

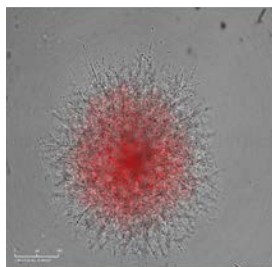
Image-based analysis



3D spheroid invasion

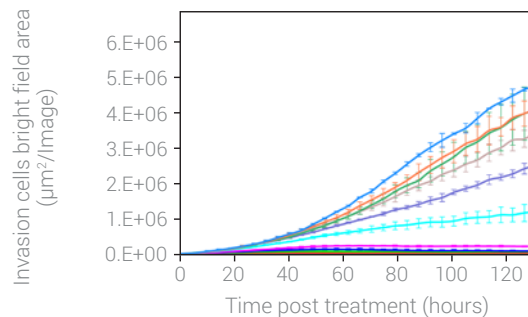
Study the invasive potential of tumor spheroids over time, as you measure and quantify metastatic potential by label or label-free analysis. Investigate the response to treatments and the inhibitory effect on invasion and progression.

Imaging



[Watch video](#)

Image-based analysis



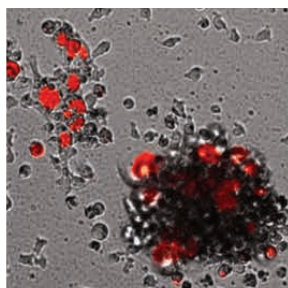
Immuno-oncology and cell function

Immunotherapy

Directly measure the potency of immunotherapies against tumor cells with an immune cell killing assay that is simple, quantitative, and high throughput. Get detailed insight into serial killing and exhaustion using NK cells, engineered T cells, antibodies, and more.

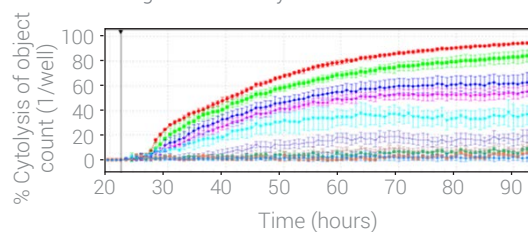
Easily calculate and convert to percent cytotoxicity using imaging parameters to expand your immunotherapy and immune cell killing analysis.

Imaging



[Watch video](#)

Image-based analysis



Immune cell clustering and activation

Gain more phenotypic insights into what is driving dynamic changes in your immune cells via cell-cell interactions. Easily quantify confluence and object count of immune cell clusters.

Imaging

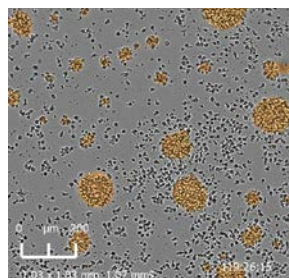
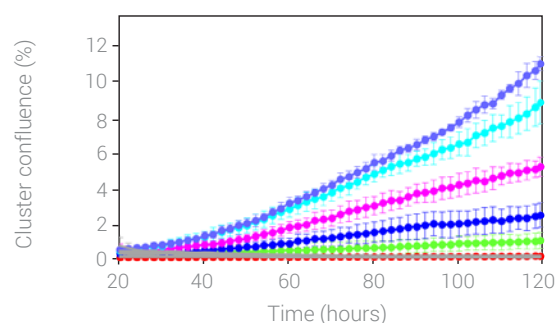


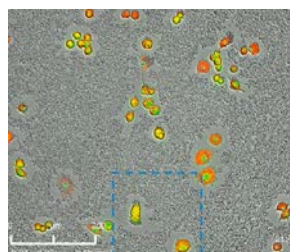
Image-based analysis



Phagocytosis

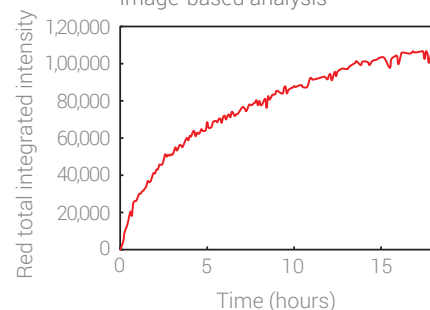
Dynamically analyze key mechanisms by which the immune system removes pathogens and cell debris. Track the entire process in real time by imaging, screen for pathway modulators, and discover therapeutic interventions. Label and visualize macrophages via eLenti reagents.

Imaging



[Watch video](#)

Image-based analysis

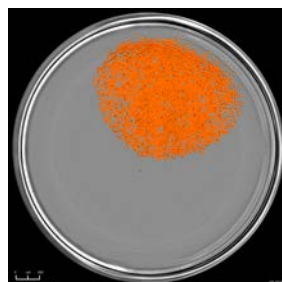


Cell monitoring and other workflows

Dilution cloning

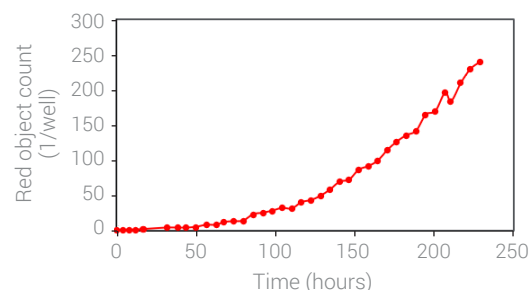
Easily track monoclonal stable cell lines over time using a limited dilution cloning method on RTCA eSight. Automatically screen clonal cell lines with minimal effort and high efficiency.

Imaging



[Watch video](#)

Image-based analysis



Antibody internalization

Measure the uptake of therapeutic antibodies into target cells by detecting fluorescence changes as antibodies move into acidic intracellular compartments, providing insights into efficacy, safety, and mechanism of action.

Imaging

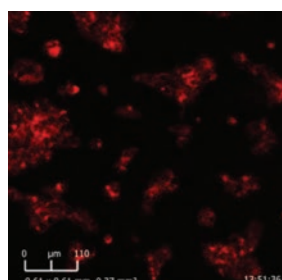
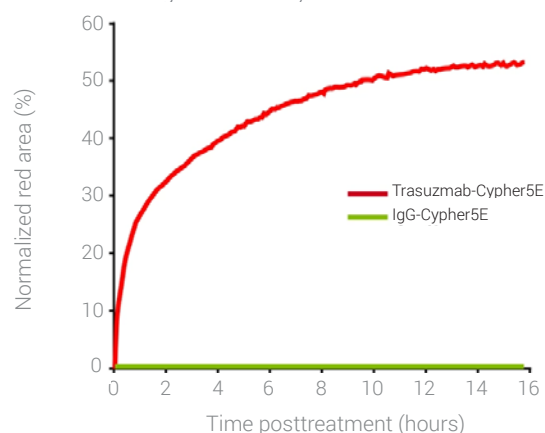


Image-based analysis



RTCA eSight software part numbers for optional applications (single license)

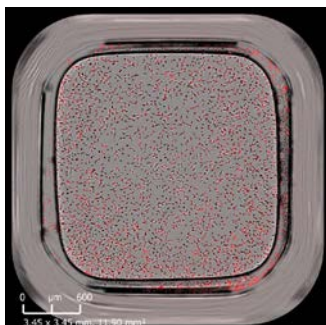
Part Number	License Type	Description of Software Application
310100310	Base software license	Three basic license keys come with purchase of an RTCA eSight. Basic is registered first, and will perform all necessary functions and readouts on the instrument, unless indicated below.
S2807-90014	3D spheroids license	3D cell culture: Includes both single and multispheroids and organoids (cytotoxicity, invasion, or killing readouts).
S2807-90020	Immune cell clustering license	Quantify confluence and object count of immune cell clusters and activation.
S2807-90036	Cell-by-cell analysis license	Single-cell segmentation and cell counting either by label-free or label-based imaging. Useful for measuring cellular subpopulations and obtaining insights into cellular heterogeneity.
S2807-90042	Dilution cloning license	Visually monitor and track clones originating from a single cell in real time using label-free or label-based methods. Track monoclonal stable cell lines.
S2807-90048	Immunotherapy license	Calculate percent cytolysis using imaging and impedance parameters; measure immune cell killing potency.
S2807-90054	Wound healing license	Investigate the rate of wound closure and measure the effects of treatments on cell migration profiles.
S2807-90095	Compliance license	Support for FDA 21 CFR Part 11 compliance to ensure the authenticity and integrity of electronic data
S2807-90102	AI automated cell segmentation license	Capture cell count and proliferation with a one-click label-free workflow and using the power of a pre-trained AI model for simple cell recognition.

Streamline your assays with expanded labware capabilities and whole-well imaging

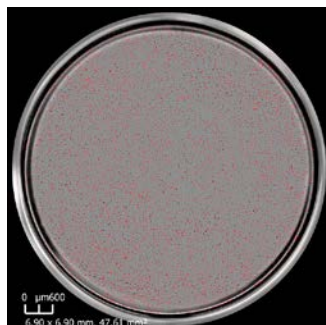
What vessel types can I use on the RTCA eSight?

The RTCA eSight accommodates a wide variety of labware, spanning 6- to 384-well plates, dishes, and flasks. The table summarizes expanded imaging capabilities (cradles four and five) of the RTCA eSight, with corresponding scan and vessel type. Easily track and monitor your cellular populations over time.

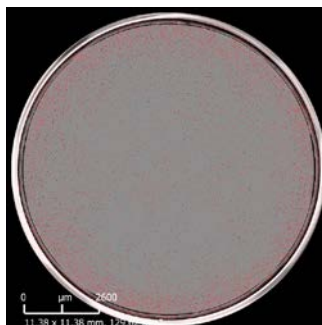
384-well plate



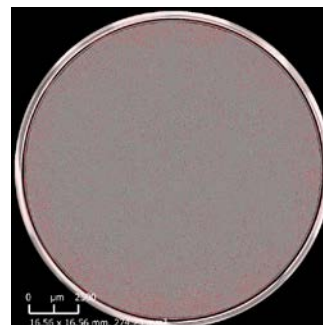
96-well plate



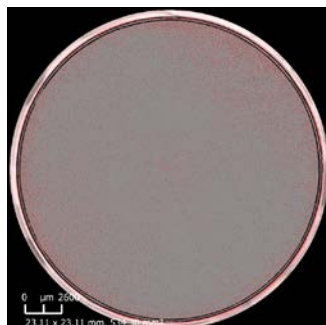
48-well plate



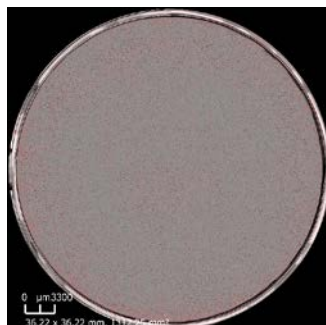
24-well plate



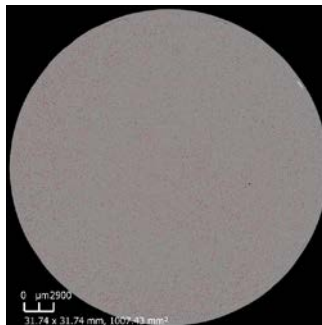
12-well plate



6-well plate



35 mm dish

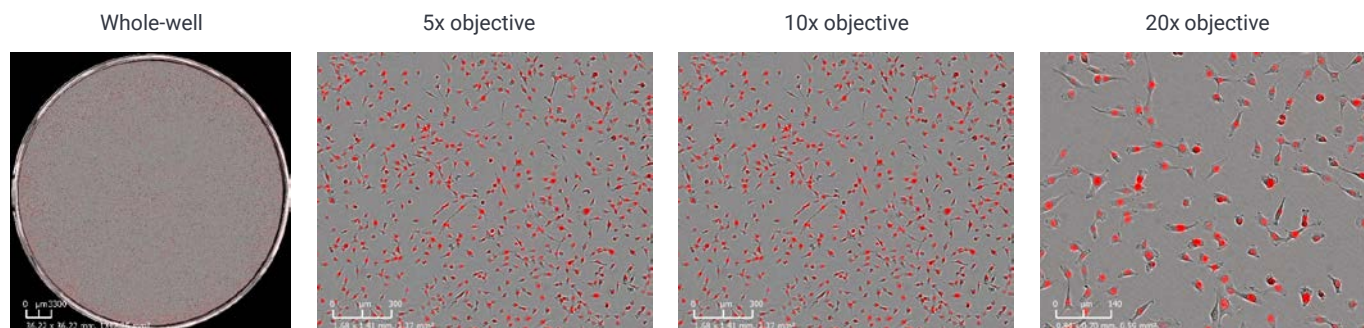


Simple cell recognition using comprehensive software

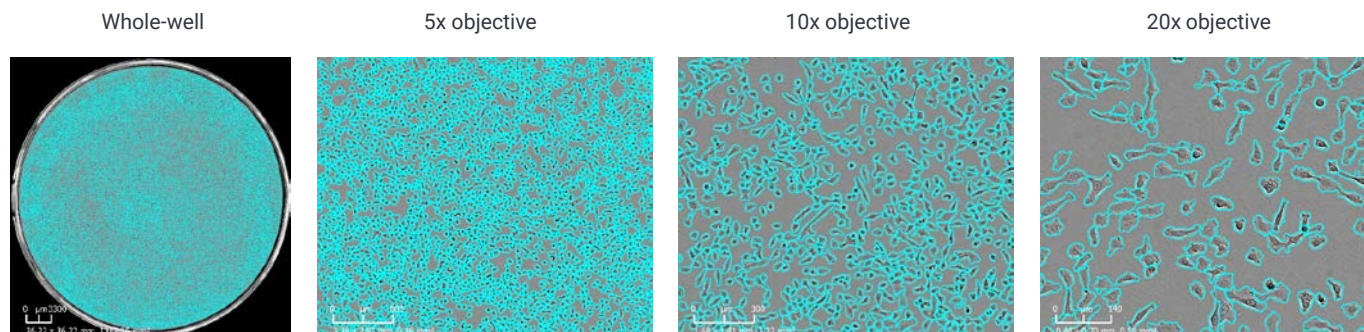
Visualize the entire well and never miss a crucial data point

Whether doing brightfield or fluorescent imaging, we've got you covered with superior cell recognition and state-of-the-art algorithms. Easily mask your cells for quantification and monitoring of cellular growth or QC-based experiments, and pinpoint key cellular events within a population.

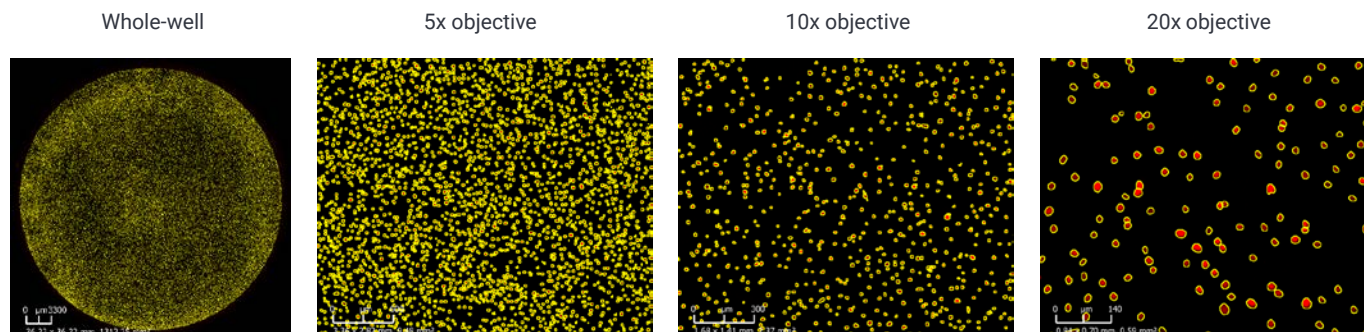
Brightfield + Red Channel



Brightfield + Mask

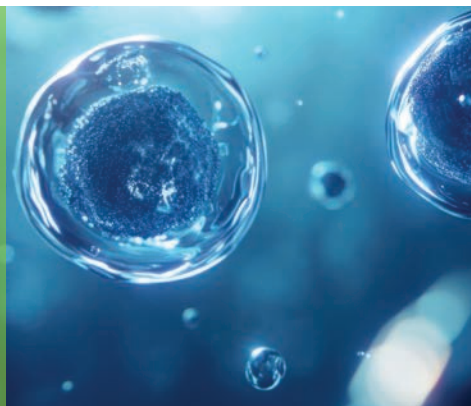


Red + Mask



Quantify Cell Health

Enable reproducible discovery



Ensure quality control of your cell culture

Optimize growth conditions and improve assay quality and consistency

- Measure cell confluency prior to experimental assays, implementing label-free or label-based monitoring
- Control for lot-to-lot difference in cell culture and prevent assay variation to ensure reproducibility
- Capture changes in cell morphology due to cell seeding density or phenotypic drift, and use full spatial coverage of cell populations
- Fully assess cell health and behavior in relation to cell treatments or conditions, and continuously monitor by imaging

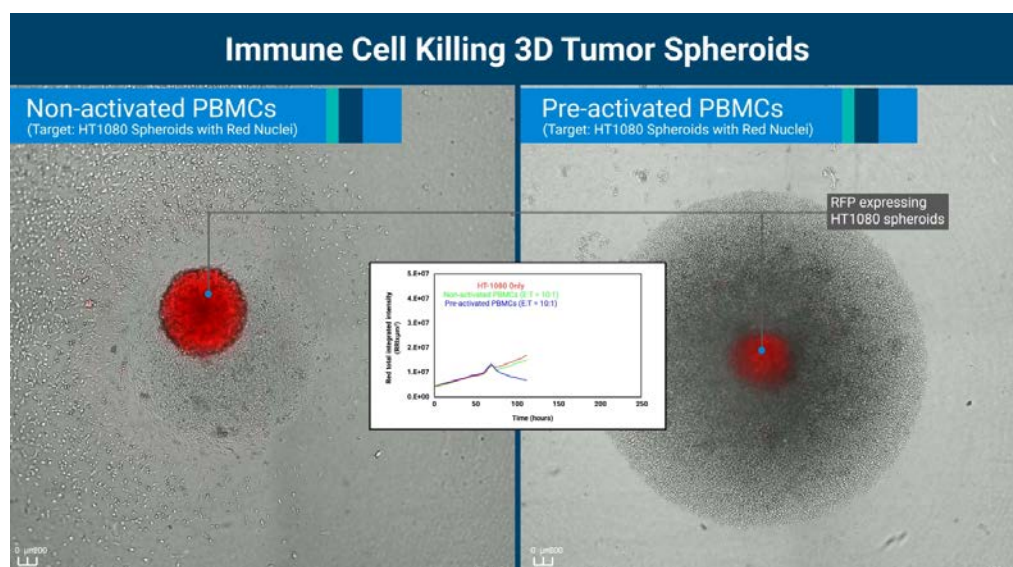
High-throughput image-based analysis and capabilities

Validate and pinpoint your CAR T hits with ease in 96- or 384-well format

Visualize high-throughput-based screen results of T cell health and proliferation, 2D or 3D cell-based CAR T killing experiments, and profile cell-specific biological activity.

Screen compound libraries and cytotoxic drugs with real-time live-cell analysis

Tease out a wide variety of mechanisms of action and group cellular responses by looking at the correlation between cell growth and viability. Identify the most potent effector cell or cytotoxic compounds by performing cell death assays.



[Watch video](#)

xCELLigence RTCA eSight Software



Powering next-generation live-cell analysis with expanded throughput and compliance

The Agilent xCELLigence RTCA eSight software delivers a major leap forward in flexibility, throughput, and regulatory readiness. With support for 5 × 96-well regular imaging microplates across all cradles, integrated 21 CFR Part 11 compliance, and powerful new 3D organoid applications; researchers can generate richer biological insights faster and with more confidence than ever before.



Key new capabilities:

- **Expanded throughput:** Run five 96-well regular microplates (imaging only) simultaneously with no hardware changes, while retaining E-Plate compatibility and the unique advantage of impedance and imaging.
- **More data, less time:** Expand from 2 × 96 to 5 × 96 imaging-only plates, enabling higher throughput for cell-by-cell analysis, antibody internalization, cell migration and invasion, immune cell activation and killing, phagocytosis, dilution cloning, and 3D-based spheroid and organoid imaging experiments.
- **Enhanced 3D applications:** Includes organoid support alongside 3D spheroids, ideal for translational research using patient-derived or stem cell-derived tissues.
- **Regulatory compliance:** Built-in 21 CFR Part 11 features ensure secure, attributable, and auditable electronic records for biopharma, cell therapy, and clinical manufacturing environments. Protect intellectual property and clinical data integrity with FDA-aligned security controls.



From discovery to manufacturing — one platform, multiple insights

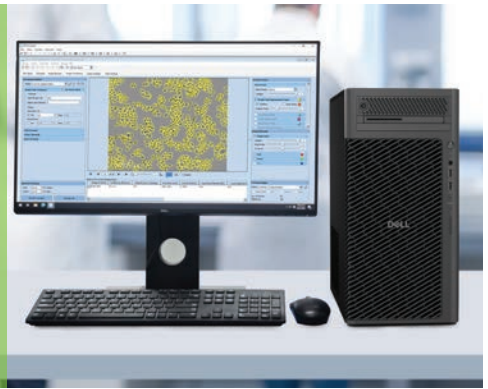
Support for 21 CFR Part 11 Compliance

With enhanced compliance features, all data and electronic records generated on xCELLigence RTCA eSight instruments are safeguarded to ensure they are trustworthy, authentic, and reliable. This includes:

- **Secure access controls:** Restrict access to authorized users with unique logins, role-based permissions, and password protection.
- **Comprehensive audit trails:** Automatically record who performed each action, what was changed, when and where it occurred, ensuring full traceability for inspections.
- **Electronic signatures:** Apply legally binding e-signatures that remain permanently linked to their respective records, complete with date, time, and purpose. Optional integration for regulated environments.
- **Data protection and retrieval:** Store results in secure, access-controlled folders, with rapid retrieval in both human-readable and electronic formats.
- **Workflow integrity:** Ensure procedural controls and operational sequences to maintain GMP manufacturing compliance.

xCELLigence RTCA eSight is a trusted instrument and workflow for cell and gene therapy manufacturing, preclinical research studies, and core laboratory operations.

×CELLigence RTCA eSight AI-powered v1.5 software

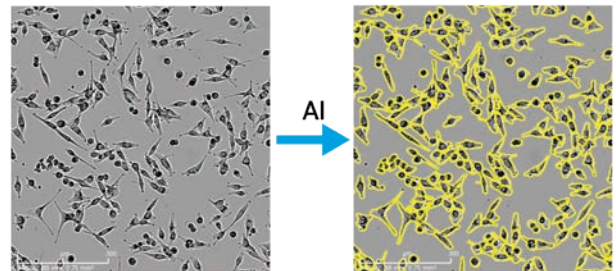


New AI-Powered, Label-Free Imaging Workflow

Harnessing the power of deep-learning, Agilent xCELLigence RTCA eSight software v1.5 introduces fully automated cell segmentation and quantification, which removes the needs for manual parameter adjustment or subjective thresholds. With a single click, users can analyze entire 96-well imaging plates in record time, ensuring consistent results regardless of operator or site. This advanced AI workflow streamlines image analysis, minimizes variability, and supports high-throughput screening. By standardizing cell identification and measurement RTCA eSight AI software empowers researchers to focus on discovery and be confident in the accuracy and reproducibility of their data.

Key new capabilities:

- **Label-free, AI-powered cell segmentation**
Accurately identifies and counts cells in brightfield images—no dyes, stains, or manual gating required. Enables robust, reproducible analysis across a wide range of cell types and experimental conditions.
- **Significant time savings**
Delivers up to 80% faster image analysis compared to traditional manual or semi-automated methods. Process full 96-well datasets in minutes, freeing up time for higher-value work.
- **Consistent, objective results**
Pretrained deep learning models apply the same criteria to every experiment, minimizing user bias and ensuring reliable, comparable data across users, sites, and studies.
- **Seamless multiplexing with impedance plus imaging**
Integrates label-free imaging and real-time impedance in a single workflow, providing orthogonal validation and richer biological insights without added complexity.
- **Broad application coverage, simplified and efficient workflow**
Supports 2D cell proliferation/QC assay models, as well as cell-by-cell analysis, wound healing, phagocytosis, and dilution cloning—without adding assay steps.
- **Easy adoption for all users**
Intuitive imaging AI software design and automated analysis mean minimal training is required. Existing users can upgrade with no disruption to established protocols.



The Agilent xCELLigence RTCA eSight AI-powered label-free cell segmentation software enables accurate cell segmentation for robust cell counting.

AI Brightfield Label-Free Segmentation with Optional Fluorescent Classification

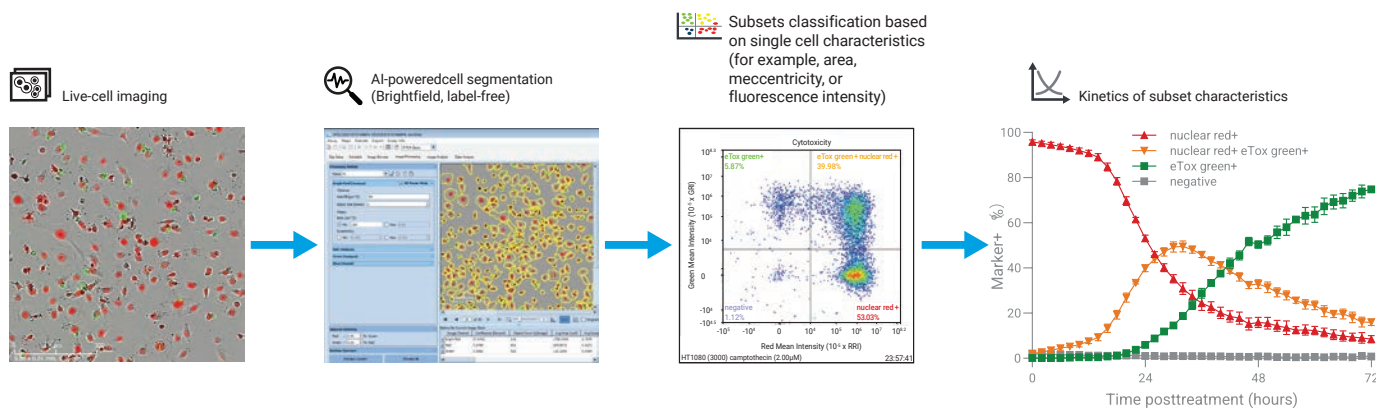
Agilent xCELLigence RTCA eSight AI-powered cell segmentation enables robust, automated cell identification and counting directly from brightfield images, with no label required. For experiments where fluorescent labeling is desired, the software seamlessly integrates fluorescence signals, allowing cell-by-cell classification and subpopulation analysis (such as live/dead or phagocytosis).

This dual capability lets researchers combine the advantages of noninvasive, label-free quantification with the specificity of fluorescence-based assays, all within a unified workflow.

Workflow benefits:

- **Focus on discovery, not manual steps:**
With automated cell segmentation, you spend less time adjusting settings and more time interpreting results and advancing your research.
- **Confident decisions on every run:**
Standardized analysis means your data is reliable—whether you're running a single experiment or scaling up for routine QC.
- **Ready for high-throughput and routine labs:**
Analyze entire 96-well plates in minutes, making large studies and repeated measurements practical for any lab size.
- **Seamless fit into your existing process:**
RTCA eSight AI works with your current protocols—no need to redesign assays or retrain your team.

Workflow for cell analysis using Agilent xCELLigence RTCA eSight AI-powered software.

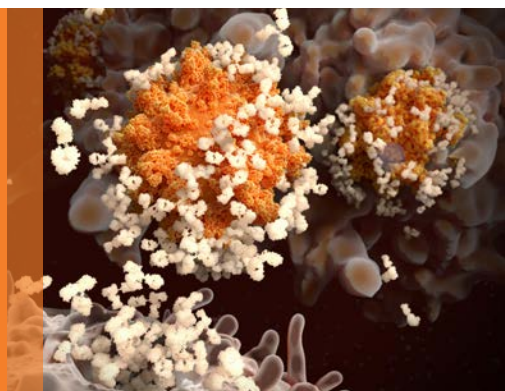


Left: Live-cell imaging in brightfield and fluorescence channels.

Middle: Automated cell segmentation from brightfield images (label-free), with optional fluorescence-based classification for subpopulations.

Right: Quantitative analysis of subset kinetics (such as live/dead) over time.

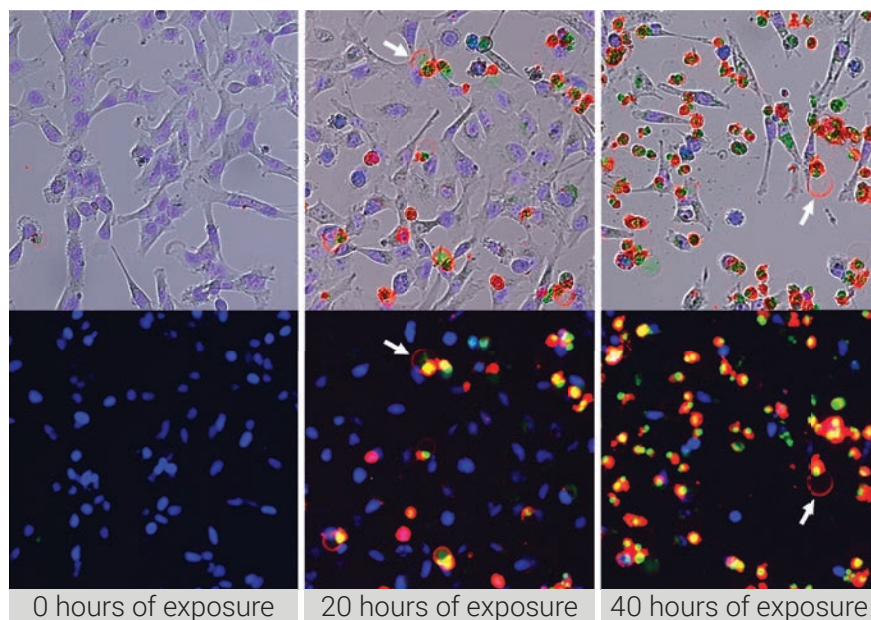
See Cellular Events and Biological Responses in Real Time



Gain deeper biological insights with Agilent reagents for RTCA eSight

The RTCA eSight live-cell assays and reagents enable real-time kinetic evaluation of a compound via its concentration and associated time points required to perturb the target. Easily detect and determine the mechanisms of action of cell death, and monitor viability with Agilent reagents for the RTCA eSight. Results may be verified simultaneously with a label-free approach, giving more confidence in your data.

Real-time impedance and live-cell imaging apoptosis assay



- Red fluorescence: Annexin V
- Green fluorescence: Activated Caspase 3
- Blue fluorescence: Nuclear-localized Blue fluorescent protein

With three distinct fluorescent channels, and Agilent reagents such as eCaspase-3, eAnnexin V, and eLive, the RTCA eSight provides a direct way to assess the extent of tumor cell killing via apoptosis or in addition to other markers of T cell activation/exhaustion.

Application	Product	Part Number
Proliferation, activation, and cell counting Visualize and quantify living cells in real time without removing cultures Learn more	eLive Red	8711004
	eLive Green	8711003
	eLive Enhancer (Verapamil)	8711038
	eLenti Green (EF-1 Alpha, Puro)	8711010
	eLenti Red (EF-1 Alpha, Puro)	8711011
	eLenti Blue (EF-1 Alpha, Puro)	8711012
Cytotoxicity Detect and count nonviable cells with simple mix-and-read protocols Learn more	eTox Green	8711008
	eTox Red	8711009
Apoptosis Quantify apoptosis in real time with simple mix-and-read protocols Learn more	eAnnexin V Blue	8711026
	eAnnexin V Red	8711007
	eAnnexin V Green	8711006
	eCaspase Green	8711005
	eCaspase Blue	8711027
Immune cell killing and 3D spheroids Detect tumor cell death directly and continuously analyze in 2D or 3D Learn more	eAnnexin V Blue	8711026
	eAnnexin V Red	8711007
	eAnnexin V Green	8711006
	eCaspase Green	8711005
	eCaspase Blue	8711027

These reagents can be combined with other fluorescent live-cell imaging reagents for multiplexed measurements including cell viability, apoptosis, and cytotoxicity all in a single well.

Learn more at: www.agilent.com/lifesciences/esight-reagents

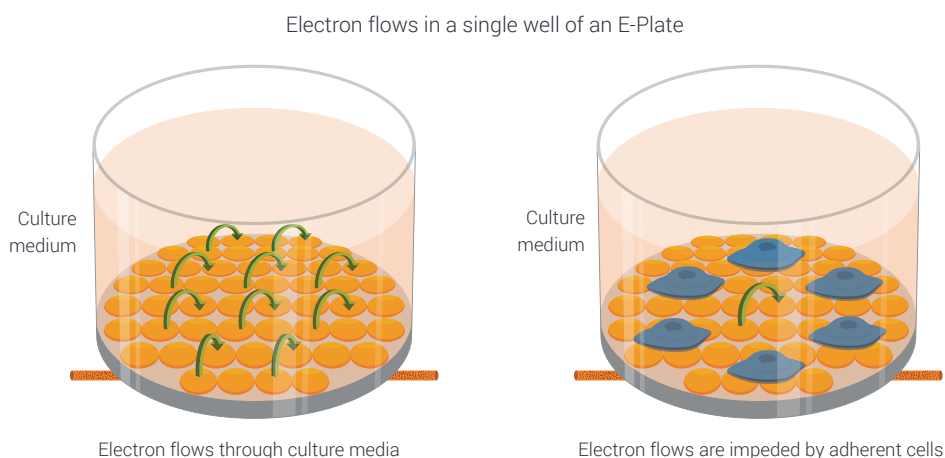


Combine the power of a label-free cellular impedance readout with imaging—boost your confidence and get more insightful data with ease

How does impedance work?

xCELLigence RTCA instruments use gold biosensors embedded in the bottom of specialized microplate wells (Agilent E-Plates) as a mechanism to noninvasively monitor cell status including cell number, cell size, and cell-substrate attachment quality. This technology enables enhanced sensitivity, the preclusion of labels, and kinetic measurement of cell health and behavior. This proprietary design enables large populations of cells to be monitored simultaneously.

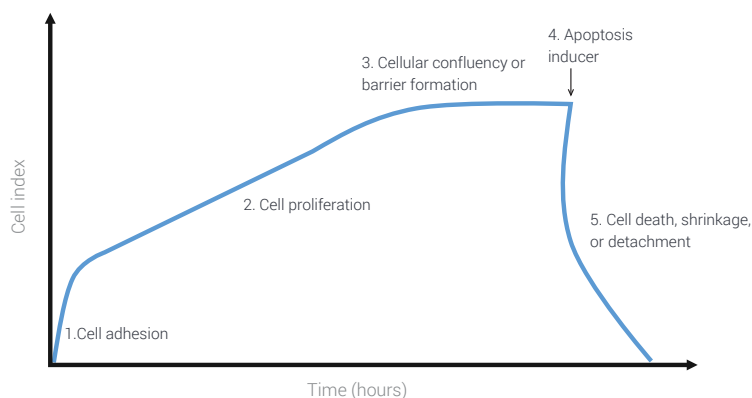
Cellular impedance



The biosensors detect electrical impedance as cells adhere to and proliferate on the E-Plates. As cells interact with the microelectrodes at the bottom of the well, changes in cell number, morphology, size, and adhesion alter electrical impedance. This impedance signal is reported as Cell Index, providing a real-time measure of cellular behavior.

When cells have been added to the wells, there is a rapid increase in impedance via cell adhesion and attachment (1). Cells begin to undergo proliferation and increase in number (2). When cells reach confluency, the Cell Index (CI) value plateaus (3).

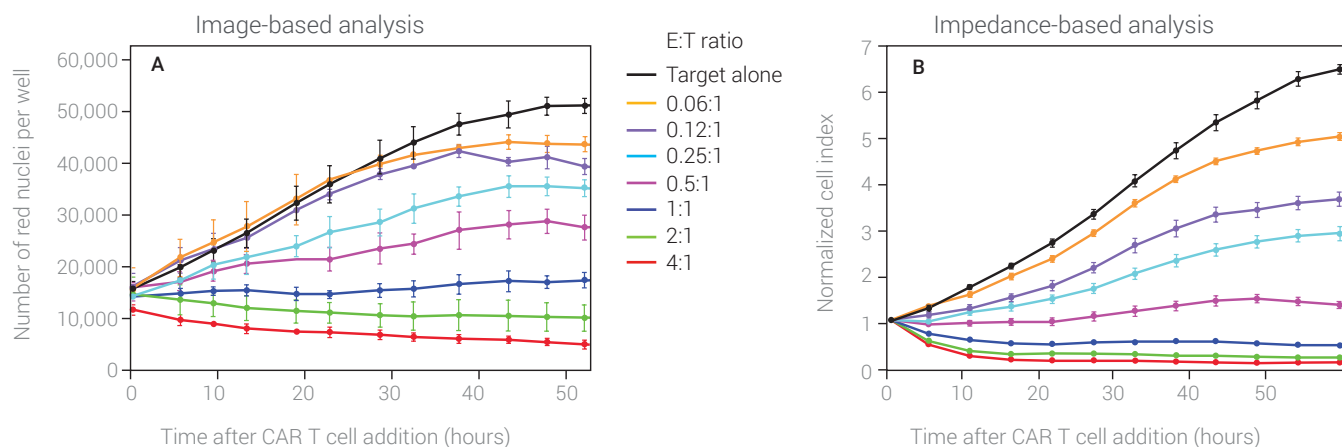
Addition of an apoptotic inducer or drug (4), causes the CI to decrease to zero. Cells begin to round and detach from the well bottom as they undergo death (5). Impedance-based assays are very flexible and can investigate a wide variety of phenomena across the full spectrum of cell densities.



Optimize your immune cell killing with multiparametric impedance and imaging readouts—capture what you're missing

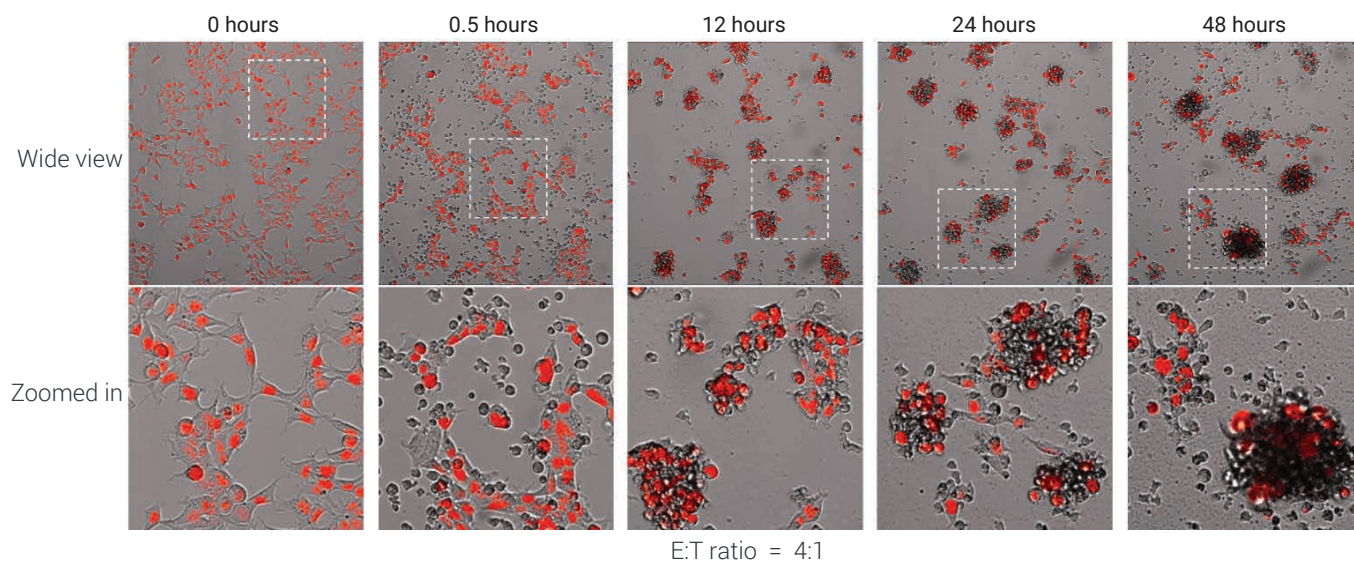
Impedance biosensors provide a simple, label-free assessment of tumor cell viability upon coculture with effector cells such as CAR T.

Imaging enables qualitative and quantitative assessment of cell morphology, confluence, and aggregation under various treatment and immune cell killing assay conditions.



Time courses for HEK-293-CD19 killing by CD19 CAR T cells as measured by imaging (A) and impedance (B). Assays were run in triplicate; error bars represent standard deviation.

Profile biological activity over time with multiple imaging channels



Killing of RFP-expressing HEK-293-CD19 cells by CD19 CAR T cells. Comparison of different time points post- CAR T cell addition at a constant E:T ratio of 4:1. The white squares in the upper panels denote the regions that are zoomed in the lower panels. The unlabeled post- CAR T cells are grey.



Additional RTCA eSight application resources

– Proliferation	– Monitoring Cell Proliferation in Real Time Using the Agilent xCELLigence RTCA eSight
– Apoptosis	– Combining Live-Cell Imaging with Cellular Impedance to Monitor Apoptotic Cell Death in Real Time
– Cytotoxicity	– Real Time Antibody-Dependent Cell-Mediated Cytotoxicity (ADCC) Assays
– Immune Cell Killing	Real Time Potency Assay for CAR T Cell Killing of Adherent Cancer Cells Bispecific T Cell Engager (BiTE) Mediated Cancer Cell Lysis Assay Immune Cell Killing of 3D Tumor Spheroids Using the Agilent xCELLigence RTCA eSight
– Phagocytosis	– Real Time Visualization and Quantitative Analysis of Macrophage Phagocytosis Using the xCELLigence RTCA eSight
– Virology	Detecting and Characterizing Virus Neutralizing Antibodies in Real Time Using Cellular Impedance and Live-Cell Imaging Screening and Characterizing Antiviral Drugs in Real Time Using xCELLigence RTCA eSight's Combination of Impedance and Imaging
– Cell Stress	– Real time, Multiday Cell Stress Assay
– 3D Tumor Spheroid	Monitoring Drug-Mediated 3D Tumor Spheroid Shrinkage Using xCELLigence RTCA eSight Real Time Monitoring and Quantifying 3D Tumor Spheroid Invasion Three-Dimensional Multispheroid Assays Using the Agilent xCELLigence RTCA eSight
– Immune Cell Fitness and Function	– Metabolic Preconditioning Improves Engineered T Cell Fitness and Function
– Migration and Invasion	Live-Cell Analysis of Scratch Wound Migration and Invasion Healing Assays A Novel Real Time Co-Culture Assay for Immune Cell Invasion and Cytotoxicity
– Dilution Cloning	– Limited Dilution Method and Monoclonal Cell Isolation
– Antibody Internalization	– Real-Time Antibody Internalization Assays with Agilent xCELLigence RTCA eSight
– Label and Label-Free Cell Tracking	– Real-Time Cell-by-Cell Analysis with Agilent xCELLigence RTCA eSight

Learn more:

www.agilent.com/lifesciences/esight

Buy online:

www.agilent.com/lifesciences/store

Find a local Sales and Support center in your country:

www.agilent.com/lifesciences/contactus

U.S. and Canada

1-800-227-9770

agilent_inquiries@agilent.com

Europe

info_agilent@agilent.com

Asia Pacific

inquiry_lsca@agilent.com

For Research Use Only. Not for use in diagnostic procedures.
RA260615.770

This information is subject to change without notice.

© Agilent Technologies, Inc. 2024-2026
Published in the USA, June 10, 2026
5994-4478EN

